

# Course Material

## SimScale

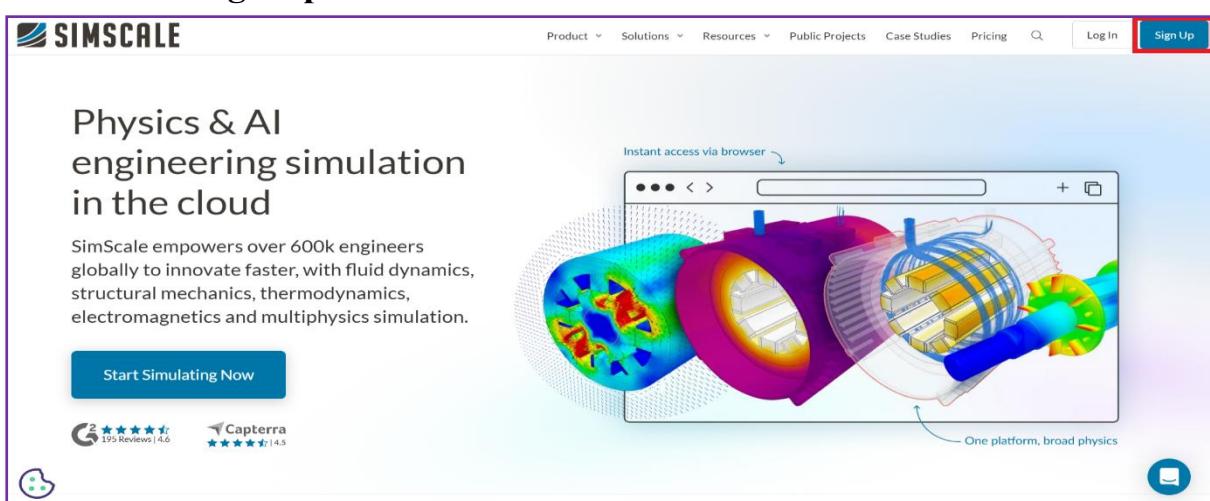
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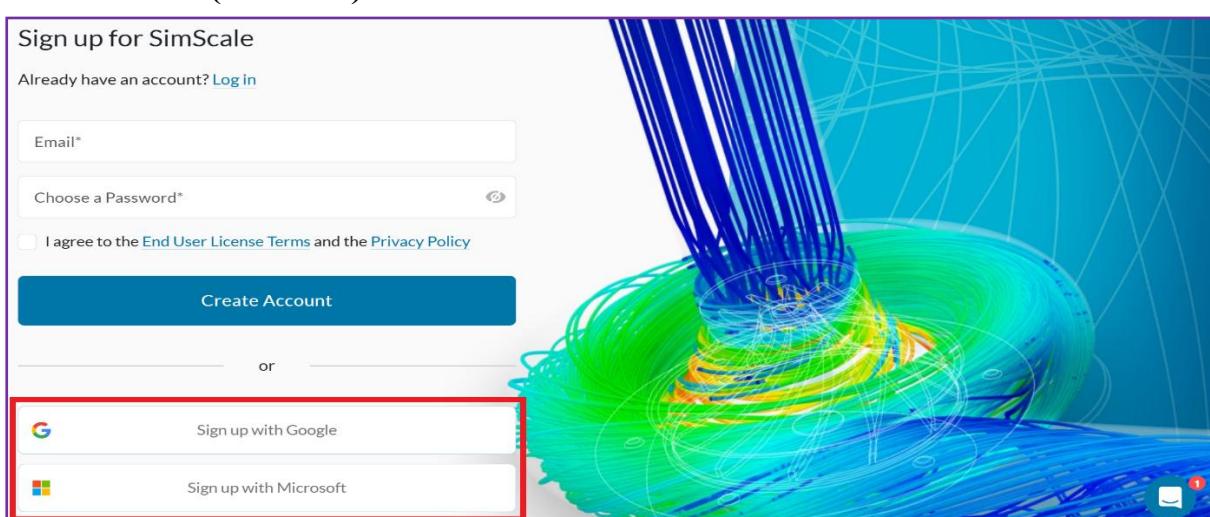
### Installation

#### Sign Up/Log In:

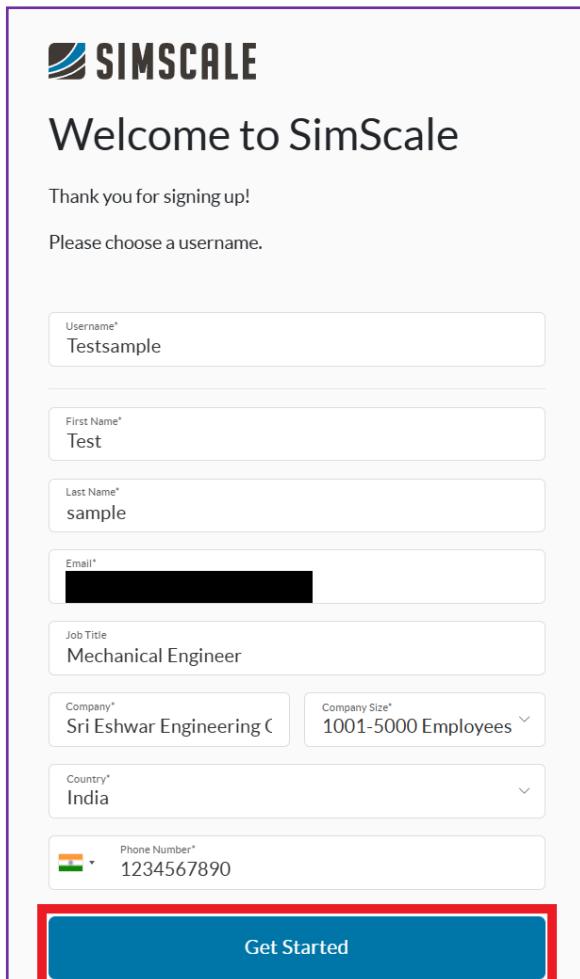
1. Go to <https://www.simscale.com/>
2. Click on "Sign Up" to create an account.



3. Select the appropriate option: "**Sign up with Google**" or "**Sign up with Microsoft (Outlook)**."



4. Fill in your details in the registration form and click "Get Started" to complete the Sign up process.
- Note:** Use your college details for Job Title, Company, and Company Size.



The screenshot shows the SimScale registration page. It includes fields for Username, First Name, Last Name, Email, Job Title, Company, Company Size, Country, and Phone Number. The 'Get Started' button at the bottom is highlighted with a red border.

SimScale

## Welcome to SimScale

Thank you for signing up!

Please choose a username.

Username\*  
Testsample

First Name\*  
Test

Last Name\*  
sample

Email\*  
[REDACTED]

Job Title  
Mechanical Engineer

Company\*  
Sri Eshwar Engineering C

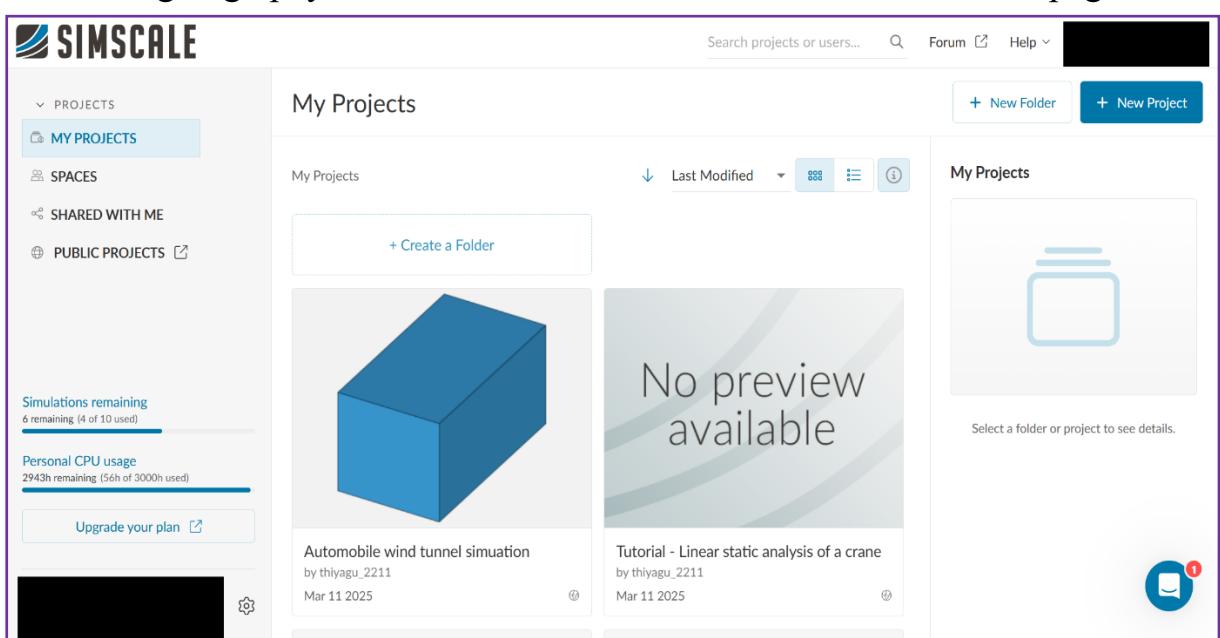
Company Size\*  
1001-5000 Employees

Country\*  
India

Phone Number\*  
1234567890

**Get Started**

5. After signing up, you will be redirected to the SimScale dashboard page.



The screenshot shows the SimScale dashboard. The left sidebar has sections for PROJECTS (MY PROJECTS selected), SPACES, SHARED WITH ME, and PUBLIC PROJECTS. It also displays simulations remaining (6 remaining / 40 used) and personal CPU usage (2943h remaining / 56h of 3000h used). The main area is titled 'My Projects' and shows three items: 'Automobile wind tunnel simulation' (by thiyagu\_2211, Mar 11 2025), 'Tutorial - Linear static analysis of a crane' (by thiyagu\_2211, Mar 11 2025), and a folder icon labeled 'No preview available'. A message at the bottom right says 'Select a folder or project to see details.' A blue notification badge with the number '1' is visible in the bottom right corner.

Simulations remaining  
6 remaining (4 of 10 used)

Personal CPU usage  
2943h remaining (56h of 3000h used)

Upgrade your plan

My Projects

Automobile wind tunnel simulation  
by thiyagu\_2211  
Mar 11 2025

Tutorial - Linear static analysis of a crane  
by thiyagu\_2211  
Mar 11 2025

No preview available

Select a folder or project to see details.

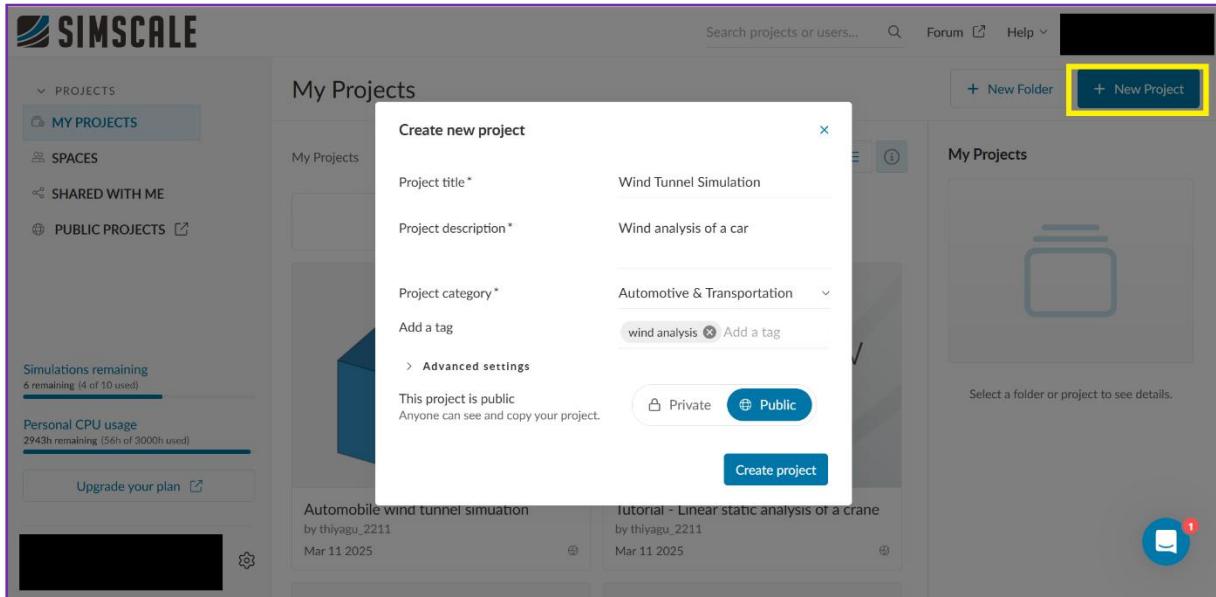
+ New Folder + New Project

## Basic Navigation Controls

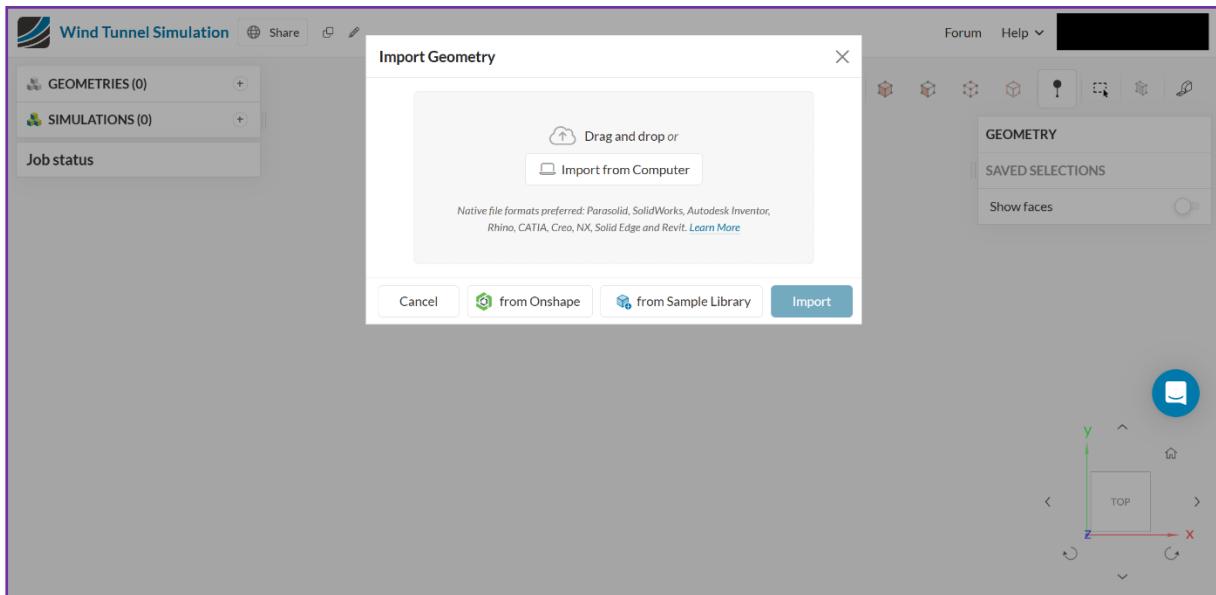
- **Zoom** → Use the **mouse scroll** to zoom in and out.
- **Free Rotate** → Hold **left mouse button** to freely rotate the view.
- **Pan** → Hold **Middle mouse click** to pan across the workbench.

## SimScale workbench

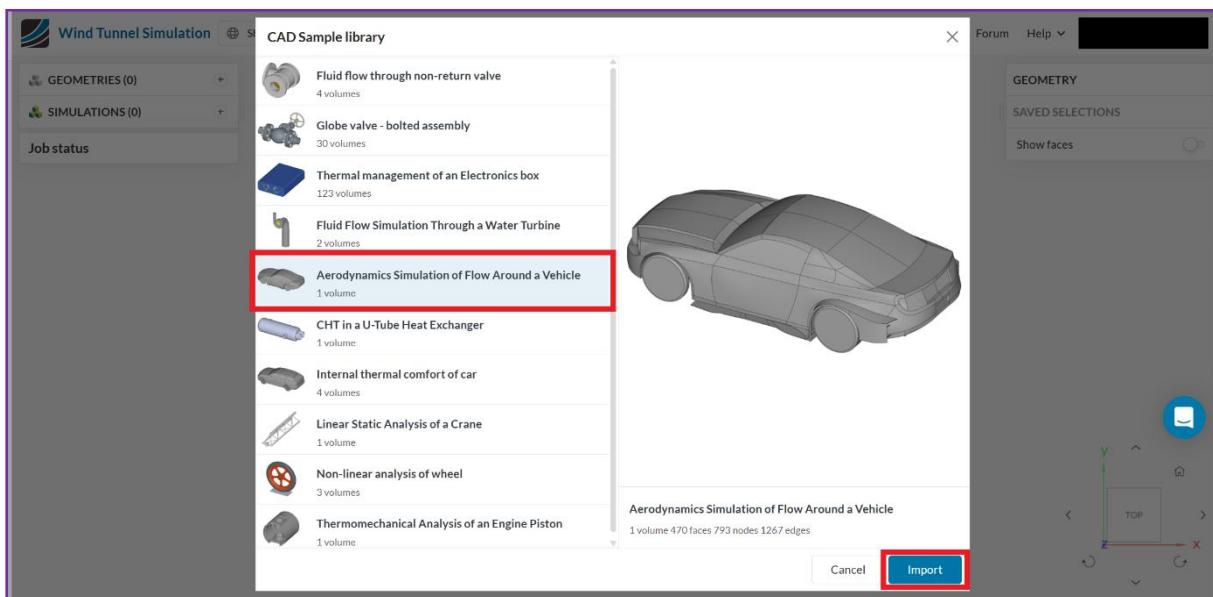
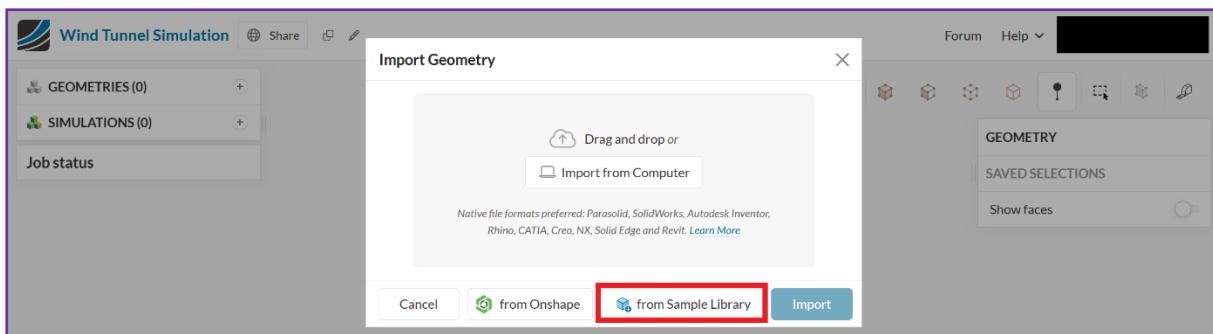
1. Click on **+New Project** and enter your project details to create a new project.



2. The SimScale workbench will launch, allowing you to upload your own 3D model for analysis or use models from the SimScale library for testing.



3. Click on “**from Sample Library**”, select “**Aerodynamics Simulation of Flow Around a Vehicle**”, and then click “**Import**” to add the 3D model to your project.



4. Follow the SimScale Tutorial documentation for a detailed step by step procedure for running the simulation and generating results.  
<https://www.simscale.com/docs/tutorials/aerodynamic-simulation-vehicle/>
5. Click on “Help” in the SimScale Workbench to access **Tutorials, Documentation, and the Learning Center**.

